PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 150 (EASTERN BLVD.) AND MACE AVE./RIVERSIDE DR. IN BALTIMORE COUNTY. MD 150 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FIVE-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE LEFT TURN PHASE FOR NORTHBOUND MD 150 AND SIDE STREET SPLIT PHASING. AN ALTERNATE PEDESTRIAN PHASE EXISTS ACROSS THE NORTH LEG OF MD 150. THIS PHASING WILL NOT CHANGE.

CONTROLLER REQUIREMENTS

A NEW EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WITH VIDEO INTERFACE EQUIPMENT AND 2-WIRE CENTRAL CONTROL UNIT WILL BE INSTALLED AT THE INTERSECTION.

APS NOTES

TO CROSS MD 150

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL BE "WAIT TO CROSS EASTERN AT MACE & RIVERSIDE, CROSSWALK ANGLES LEFT"

B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF

THE WALK PHASE TRAFFIC SYSTEM OVERHEAD INTERCONNECT NOTE

EXISTNG INTERCONNECT FROM MD 150 & MARIE AVE. CABINET TO MD 150 & TAYLOR AVE. CABINET SHALL BE REMOVED AND REPLACED WITH NEW 12-PAIR SELF SUPPORTING CABLE USING EXISTING HARDWARE IN SAME LOCATION ON UTILITY POLES.

EQUIPMENT LIST "A"

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

QUANTITY DESCRIPTION

1 EA

EIGHT-PHASE CONTROLLER AND BASE MOUNTED CABINET WITH TELEMETRY EQUIPMENT 2 EA

VIDEO INTERFACE EQUIPMENT

SHEET ALUMINUM SIGNS TO CONSIST OF THE FOLLOWING: 1 EA - R3-5L (30" X 36") OVERHEAD MOUNT

2 EA - D3-2 (VAR. X 16") OVERHEAD MOUNT 2 EA - R3-4 (24" X 24") GROUND MOUNT

1 EA - R4-7 (18" X 30") GROUND MOUNT 2 EA - M95-1 (72" X 40") OVERHEAD MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR, ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

<u>ITEN</u>	<u>/ NO.</u>	QUANTITY	DESCRIPTION
1	1003	3 EA	MAINTENANCE OF TRAFFIC
1	1005	1 LS	MOBILIZATION
2	2001	242 CY	CLASS 2 EXCAVATION
2	2002	2 CY	TEST PIT EXCAVATION
Ę	5001	1 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS
5	5002	4 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LETTERS
E	5004	325 LF	12 IN HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
5	5005	45 LF	24 IN. WHITE HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
5	5007	315 LF	REMOVAL OF EXISTING PERMANENT PREFORMED PAVEMENT MARKING LINE - ANY WIDTH
6	6001	125 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER
ϵ	6002	968 SF	5 INCH CONCRETE SIDEWALK
8	3001	1 EA	2-WIRE CENTRAL CONTROL UNIT
8	3007	2 EA	AUDIBLE /TACTILE PEDESTRIAN PUSHBUTTON
8	3008	1 EA	10 FT. BREAKAWAY PEDESTAL POLE
8	3013	2 EA	L.E.D. 16 IN. COUNTDOWN PEDESTRIAN
3	3015	1 EA	16.5 FT. MAST ARM POLE & 38 FT. MAST ARM
8	3017	1 EA	16.5 FT. MAST ARM POLE & 70 FT. MAST ARM
3	8021	1 EA	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
8	3025	1 EA	VIDEO DETECTION CAMERA AND CABLE (200 FT.)
8	3025	3 EA	VIDEO DETECTION CAMERA AND CABLE (300 FT.)
3	3028	3750 LF	12-PAIR COMMUNICATION CABLE
8	3034	150 LF	4" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- SLOTTED
8	3035	30 LF	2" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
8	3035	55 LF	3" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
8	3035	210 LF	4" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
8	3036	15.5 LF	FURNISH AND INSTALL WOOD SIGN SUPPORT (4" x 4")
8	3037	60 SF	DETECTABLE WARNING SURFACE (CLAY BRICK PAVERS)
8	3038	80.45 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGNS
8	3040	260 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
ł	8041	2 EA	FURNISH AND INSTALL 3 IN. WEATHERHEAD
8	3042	1 EA	METERED SERVICE PEDESTAL EMBEDDED
8	3044	90 LF	ELECTRICAL CABLE 1 - CONDUCTOR (NO. 4 A.W.G.) - THHN /THWN
8	3046	4 EA	ELECTRICAL HANDHOLE
3	3050	25 EA	12 INCH LED SIGNAL HEAD SECTION
8	3052	1 EA	CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE
87 - 8	3054	400 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 14 A.W.G.)
8	3056	285 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
8	3057	1360 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
	3065	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT
١	NEG.	9 EA	FURNISH AND INSTALL 12 IN SIGNAL HEAD SECTION - OPTICALLY PROGRAMMED

EQUIPMENT LIST "C"

<u>QUANTITY</u>

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

<u>DESCRIPTION</u>

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MS. ERIN KUHN

MR. ANDRE FUTRELL ASSISTANT DISTRICT ENGINEER - TRAFFIC

(410) 321-2781

ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 321-2761

MR. MICHAEL PASQUARIELLO ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 321-2841

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, \$R. CHIEF, TRAFFIC OPERATIONS MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676

(410) 787-7630 MR. ROBERT SNYDER

ASSISTANT DIVISION CHIEF,

TRAFFIC OPERATIONS

(410) 787-7631

MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

1. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TO AN APPROVED SEDIMENT CONTROL DEVICE.

SIDEWALK RAMP LAYOUT

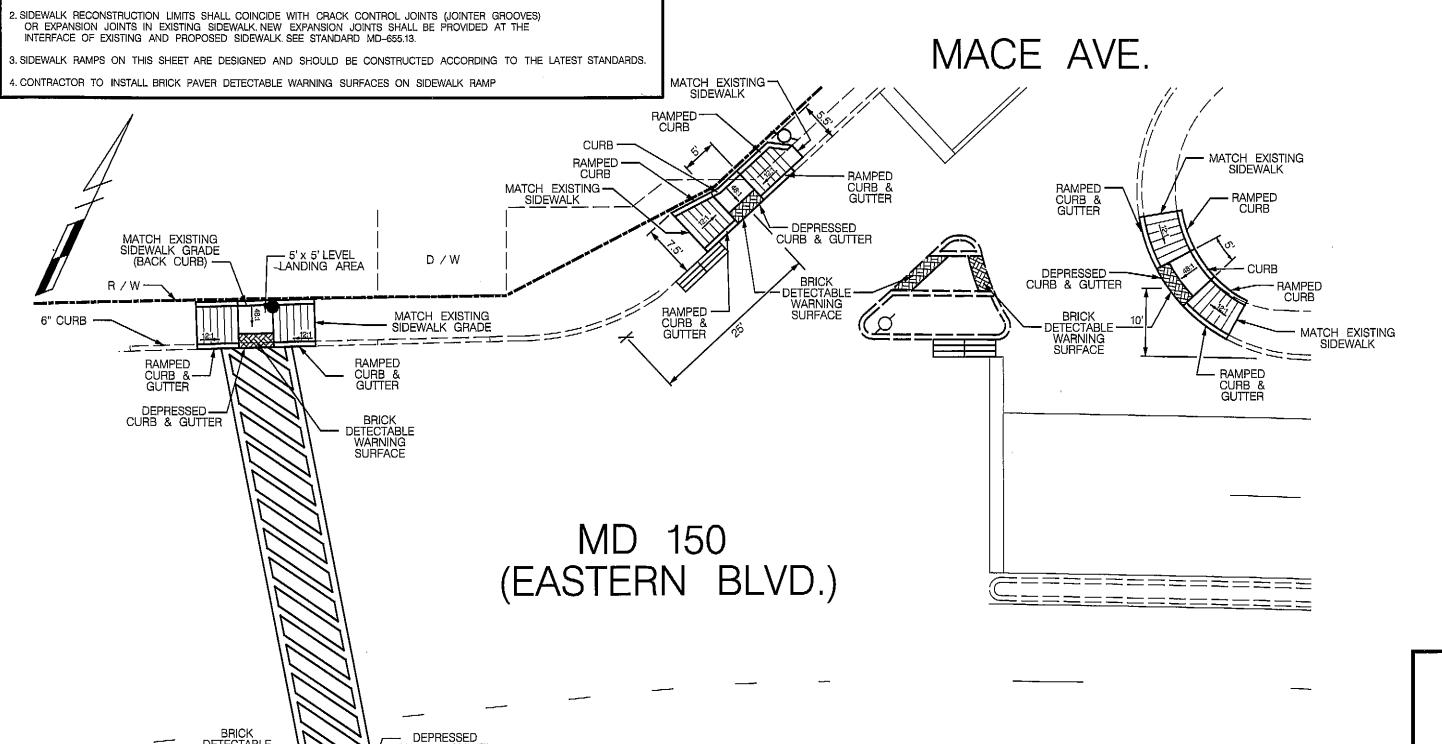
NOT TO SCALE

PHASE CHART

PHASE 1 & 6 | ◀-G--| G-| G-| G-| R-| R-| R-| -G-| R-| R-| DW-| DW-| ←/ 1 & 6 CHANGE | -Y- | -Y- | G | G | R | R | R | -Y- | R | R | DW | DW | PHASE 2 & 6 | ←R- | ←R- | G | G | G | R | R | R | DW | DW | ← 2 & 6 CHANGE | TR- TR- Y Y Y Y R R R R DW DW \blacksquare R \blacksquare R R R \blacksquare G DW DW **4**-R− **4**-R− R R R R R R G G WK WK -R-R-R-R◆FLR- ◆FLR- FLY FLY FLY FLR FLR FLR DARK DARK

*PEDESTRIAN WALK PHASE SHALL BEGIN PRIOR TO THE START OF PHASE 3 VEHICLE GREEN INDICATIONS

REMOVE EXISTING OVERHEAD INTERCONNECT FROM MARIE AVE.
TO TAYLOR AVE. INSTALL, NEW 12-PAIR VOICE GRADE INTERCONNEC WIRING DIAGRAM CABLE IN ITS PLACE. N,O,P,Q,S,T,U,YT向XX -A,B,C,D,I,J,K,L,M A,B,C,D,I,J,K,L,M,N,O,P,Q,S,T,U,Y-WIRING KEY 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) VIDEO DETECTION CABLE 12-PAIR VOICE GRADE INTERCONNECT --- B,D,J,K,L,O,P,Q,S,U,Y STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
PROPOSED ELECTRIC SERVICE F,J,K,L,O,P,Q,Y PROPOSED TELEPHONE SERVICE GROUND ROD METER SERVICE PEDESTAL B,D,J,K,L,O,P,Q,S,U,Y-



TOD NO:XX446-07

SHA NO:BA864A55/B55 MD 150 @ MACE AVE/RIVERSIDE DF

325 Gambrills Road Suite E Gambrills, MD 21054

TRAFFIC@TRAFFIC-CONCEPTS.COM

SHEET NO. 2 OF 2

TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION PLAN

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

MD 150 (EASTERN BLVD.) AT MACE AVENUE / RIVERSIDE DRIVE (ESSEX, MD)

SCALENON	DATE		ONTRACT NOX4405185
DESIGNED BY	T.ZAYDEL	COUNTY	BALTIMORE
DRAWN BY	T. ZAYDEL	_ LOGMILE	03015003.02
CHECKED BY	S. RENŻI	_ T.I.M.S. NO.	J-536
F.A.P. NO.	N∕A	_ TOD NO.	

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